

# CLEAN INDIA

What is best alternative ?



Thanks ! You  
Collected! Let  
Process on  
Machine!



Good!  
You are  
Composting!

खुदन-खुदा-कचरा  
पीसने की मशीन

Destroy

Every Dirt

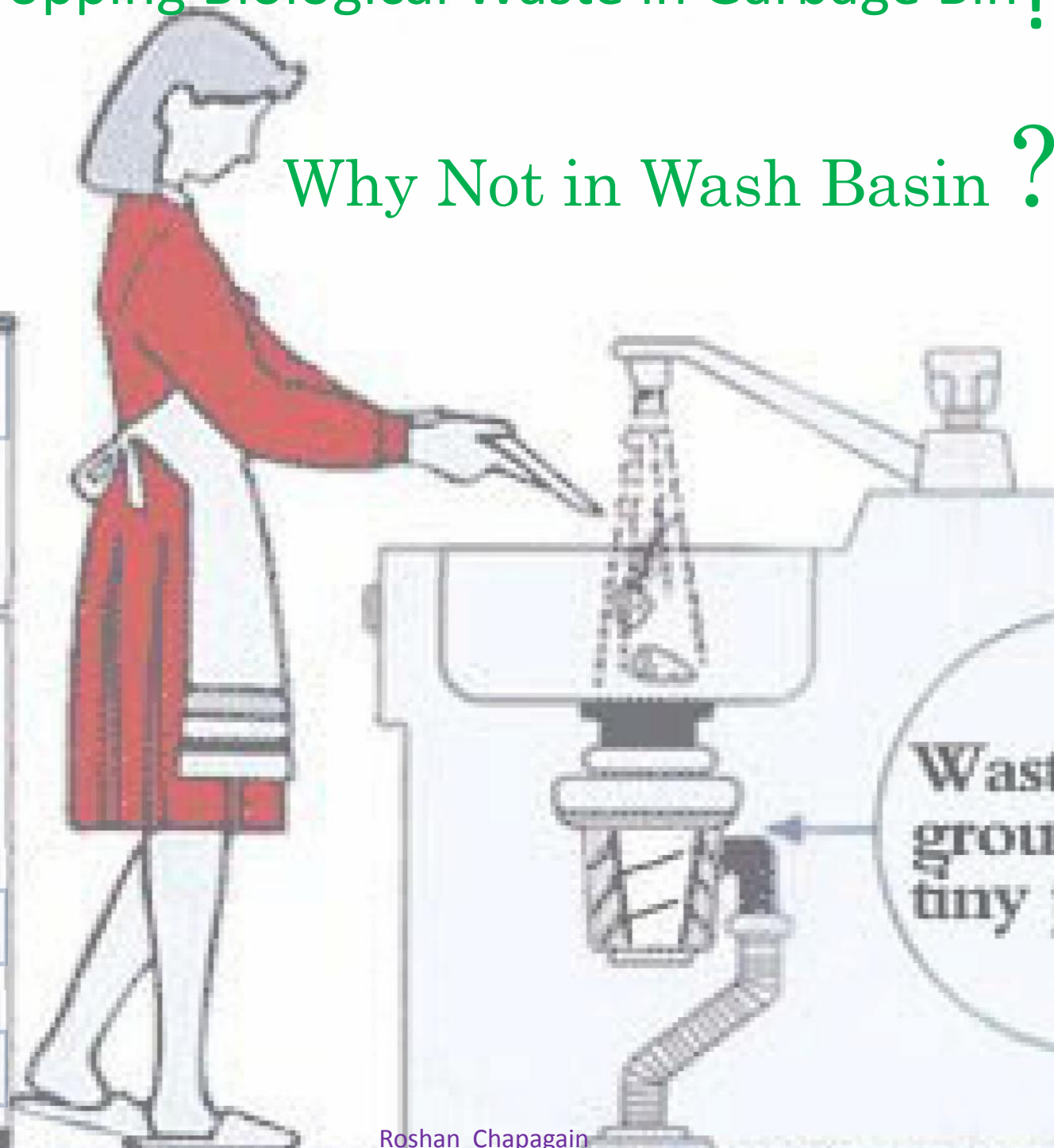
At the Source of Production

BY

ROSHAN CHAPAGAIN

# Why You Are Dropping Biological Waste in Garbage Bin?

## Why Not in Wash Basin ?





**What Wrong We are Doing Till Today**

Mixing the Biological Waste  
With Non Bio Waste

**What is the Way-out ?**

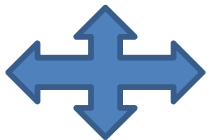
**Segregate Biological Waste from Other Waste at Your Kitchen Source!**

All Dwellers Who do not Possess  
Garden Compound or Terrace

All Dwellers Who Possess  
Garden Compound or Terrace

**Install & Use Food Waste Cutter at  
Below Your Wash Basin**

**Use Kitchen Waste & Garden Waste  
For Preparing Compost Manure**



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# What is the Benefit of Food Waste Cutter ?

It Will Allow Segregation Of Biological Waste From Other Waste at Kitchen

All House Owners Can Destroy/ Dispose Off Their Bio Waste at Home

Resultantly! It will Allow Segregation of Plastic & All Other Non Degradable Substance Separate

All Such Biological Waste Can be Easily Destroyed at Biological/ Compost Toilet Installed at Each Home

All Such By Product can be Stored in Small Septic Tank Below Home

Sewage Facility Holder can Flow It, If They Can Bear Whole Cost Thereof

All House Owners Can Instead Get Money for Collection of Such Non Degredable Plastic etc.

All Such Septic Tank Substance And Sewage By-Product is Good Source of Compost Manure

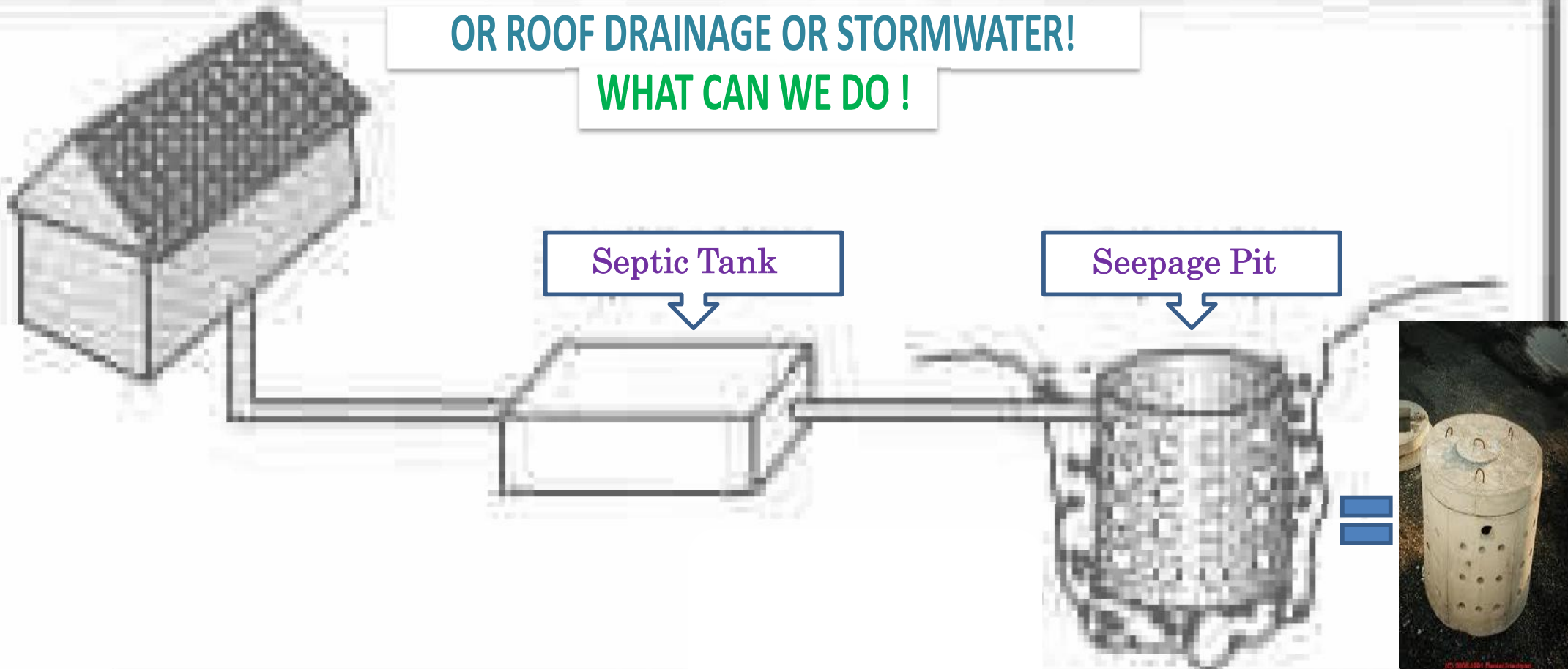
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**OUR ROAD ARE FILTHY /DIRTY DUE TO FLOW OF GRAYWATER FROM KITCHEN/ BATHROOM**

**OR ROOF DRAINAGE OR STORMWATER!**

**WHAT CAN WE DO !**



**Always Construct Septic Tank & Seepage Pit**

(Dry Well) **If** There is **No** Reliable

**Sewage System in Your Area**

**Remember !** There Should have Sewage Treatment Plant Installed in Your Area!

**Otherwise** You Should Always Use Your Own Septic Tank & Seepage Pit



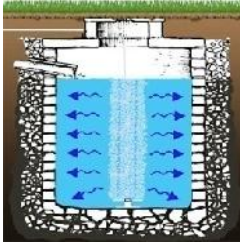
# It is Immoral & Unethical to Construct Sewage Pipeline Prior to Construction of Sewage Treatment System



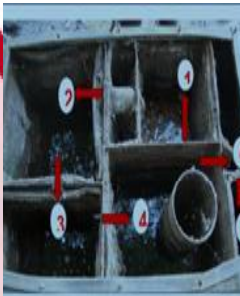
Biogas



Bio Gas is  
Huge Source for  
Cooking Gas



Septic Tank  
Soil Absorption  
Systems



Scientific Biogas  
Digester Septic  
Tank

## SOCIAL

You Anti-Social Brave Heart Politician Better Know  
All These Sewage Goes into Holy Rivers  
Without Treated!

## Bearable

**Septic Tank** Below Each Home should be Mandatory.  
All These Bio Waste Can be Pumped Later  
For Using It as Organic Fertilizer

## Equitable

## Sustainable

**Septic Tank & Biogas at Each Door is  
More Sustainable Form Than Sewage System**

## Environment

### Impact of Septic Tank

1. Decentralize management of Organic Pollution.
2. It is helpful to protect the fauna & flora
3. Bio Gas can be generated with the help of other household Bio- Waste
4. It is good source of Organic Manure

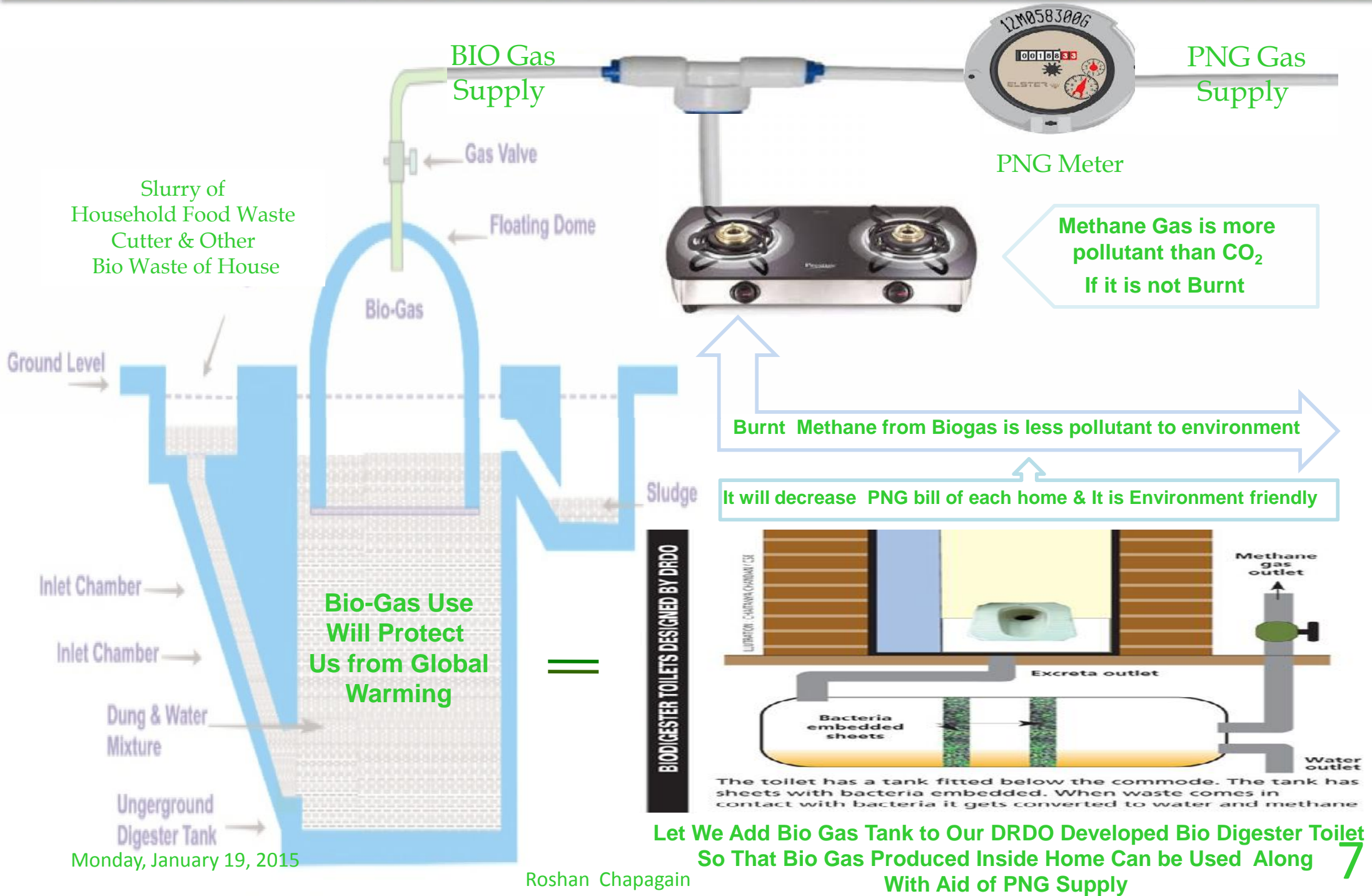
## Viable

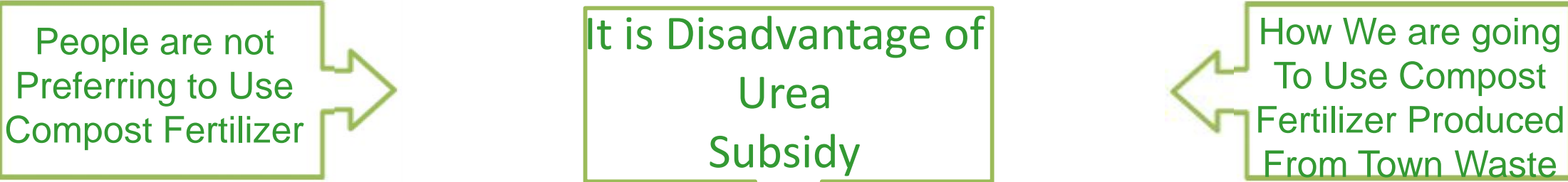
## Economic

### Advantages of Septic Tank

1. Simplicity, reliability and low cost.
2. Low maintenance requirements.
3. Nutrients in waste are returned to soil.
4. A properly designed, well-maintained system can last for more than thirty years.

# MISSION TO HOUSEHOLD BIOGAS CUM PNG KITCHEN AT EACH HOME





Nobody will Opt Town Waste Fertilizer If Chemical Fertilizer Subsidy Continue

Why not Stop Chemical Fertilizer Subsidy & Instead Increase Food Support Price

We Should Provide Subsidy + Tax Holiday to Septic Tank Pumping Vehicle and Compost Fertilizer Plant.





# Advantages to the Septic System

- There are many things to the Septic system, both good and bad. There are many advantages. Here are some of them:
- Septic tanks in the long run are more cost effective, running about Rs. 10,000/- onwards.
- There are no water bills, and costs about Rs. 500 to pump it. It is possible that some later days farmers will be ready to pay money for your septic collection if organic fertilizer use goes more echoing.
- It needs to be pumped every 3 to 5 years, depending on the person/ size.
- It needs little maintenance.
- The bacteria are aerobic, so the speed of the bacteria breaking down the waste increases immensely
- An aerobic system will break down solids faster so less solids will reach the draining field and groundwater.
- For cement septic tanks, they last much longer and will not rise out of the ground as time passes.
- They can hold a lot of septic effluent because of the size and weight, and are permitted in every state.

## Advantages of Septic System over Public Sewer System

Many people don't understand that private septic systems offer many advantages over public sewer systems. Septic systems provide simple, effective onsite wastewater treatment, as compared to sending waste to a public wastewater treatment plant. Therefore, septic systems allow homeowners to avoid the high cost of sewer lines and allow groundwater to be recharged onsite, making more clean water available for use. Septic systems treat the effluent naturally and allow water to seep into the ground, which keeps moisture on site to help plants grow and replenish the water supply.

Septic systems offer environmental advantages over sewer systems, as using a septic system lessens the risk of raw sewage discharges from treatment plants. Aging sewer lines can leak untreated effluent into the soil and therefore contaminate local groundwater. If properly installed and maintained, septic systems offer many environmental benefits to public sewer lines and systems.

Furthermore, the residue collected from each Septic Tank can be easily made available for Organic Fertilizer for our agriculture and it will protect us from vice of chemical fertilizer subsidy. Time will come when farmers will start to purchase such organic substance for fertilizer purpose if we go on massive way.



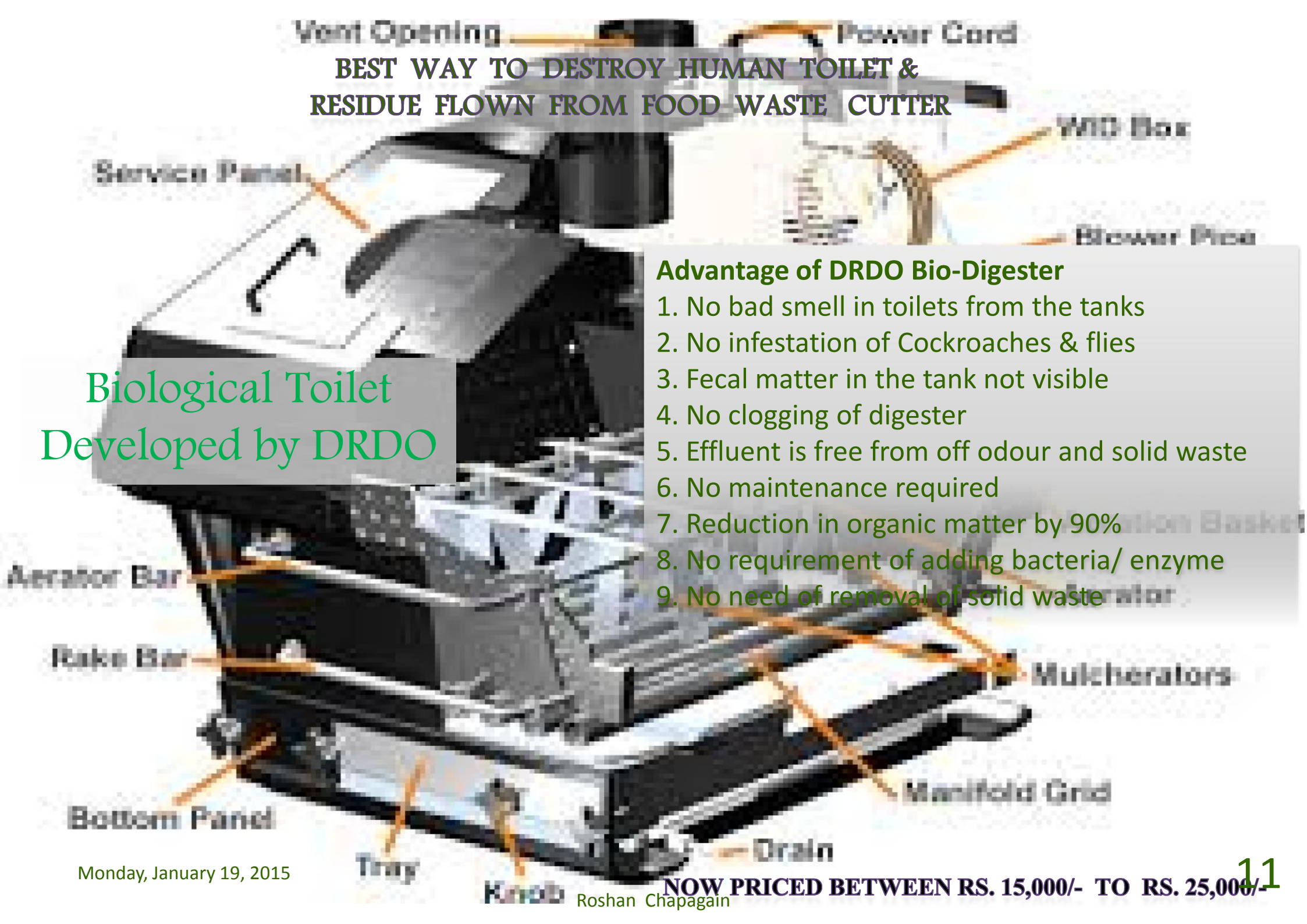
Vent Opening Power Cord

## BEST WAY TO DESTROY HUMAN TOILET & RESIDUE FLOWN FROM FOOD WASTE CUTTER

### Biological Toilet Developed by DRDO

#### Advantage of DRDO Bio-Digester

1. No bad smell in toilets from the tanks
2. No infestation of Cockroaches & flies
3. Fecal matter in the tank not visible
4. No clogging of digester
5. Effluent is free from off odour and solid waste
6. No maintenance required
7. Reduction in organic matter by 90%
8. No requirement of adding bacteria/ enzyme
9. No need of removal of solid waste



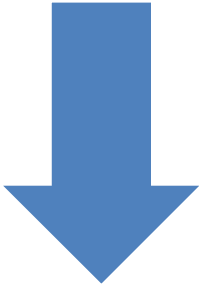
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NOW PRICED BETWEEN RS. 15,000/- TO RS. 25,000/-

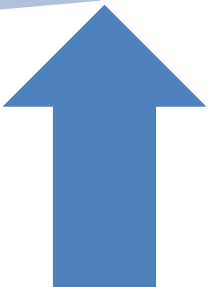


# Other Best Toilet Alternatives for Town & Villages



Dry Toilet for Town Areas

Low Cost Toilet for Rural Areas





Dry  
Toilet



Micro  
Sewage  
Treatment  
Plant



Compulsory to Every —



— Constructed Near to

Water Bodies, Lake, River & Ocean Etc. Heavy Punishment If Such  Owners Disobey. All Others Places Where Water Table is High are also Bound to Follow These Measures.





# Why It is Always Essential to Construct Dry Well at Your Home

Draining your dishwasher into a dry well saves your septic system from overload. If you are judicious in your use of detergent, draining a dishwasher into a septic tank doesn't harm the flora and fauna in the tank and poses no problems. If you wash dishes frequently, however, or have a dishwasher that uses a large amount of water, you may flood the leach field if you drain the dishwasher into the septic tank. One solution is to dig a gray water dry well. It's a covered pit with a perforated lining that allows holds water from the dishwasher, as well as from other sources, and allows it to seep into the ground.



# Rain Water Harvesting?

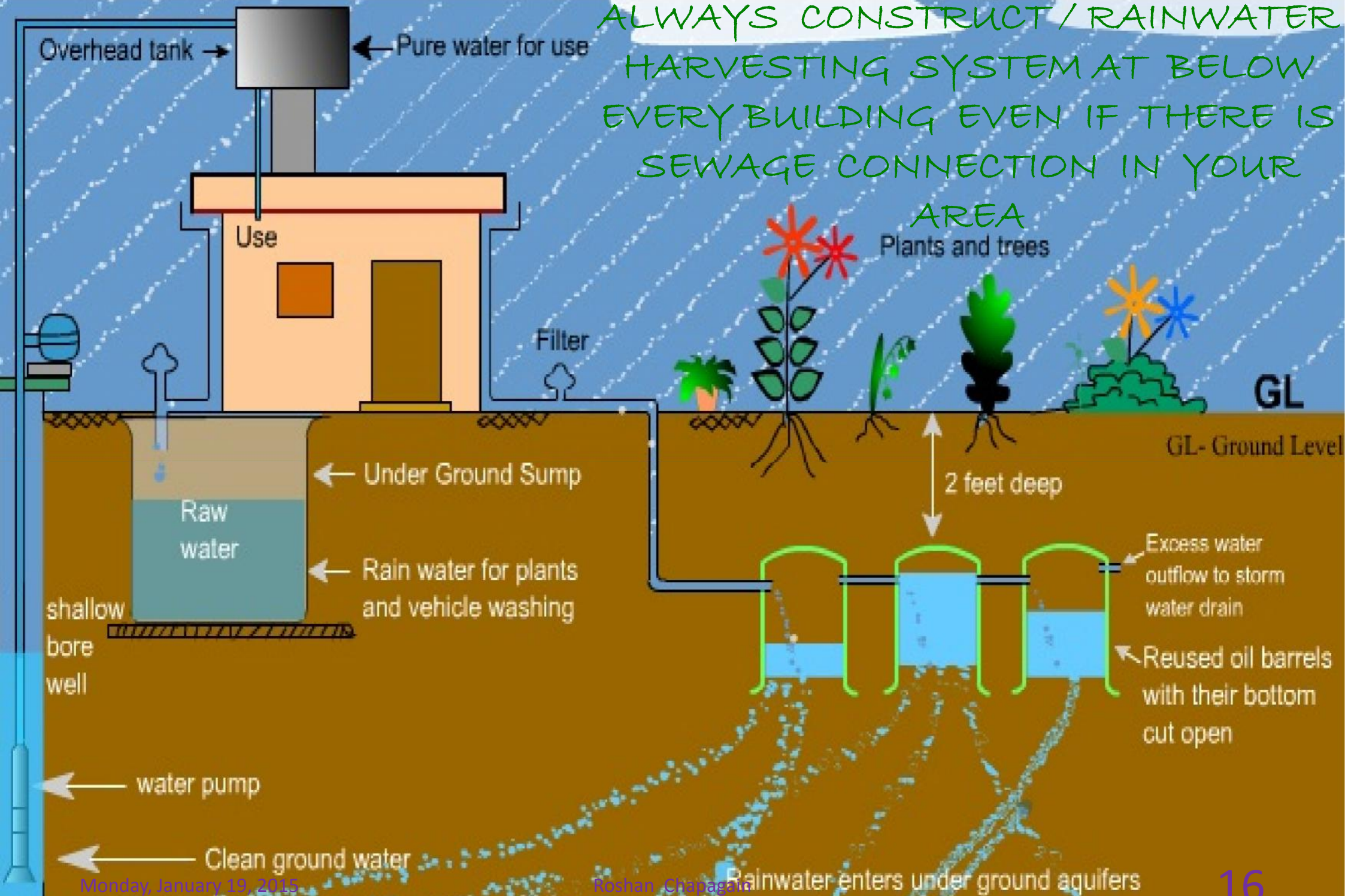
**Rain Water Harvesting RWH-** process of collecting, conveying & storing water from rainfall in an area – for beneficial use.

**Rain water collected at roof top passed through two stage filtration system designed to remove organic material such as leaves & twigs out of stored rain water before collected at domestic tank.**

**In the present Global Warming scenario, It is our responsibility to save Water, thereby indirectly Reduce Emissions & Create a Sustainable Environment for future generation.**



ALWAYS CONSTRUCT / RAINWATER  
HARVESTING SYSTEM AT BELOW  
EVERY BUILDING EVEN IF THERE IS  
SEWAGE CONNECTION IN YOUR  
AREA



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Rainwater enters under ground aquifers

Disclaimer: Graphics Downloaded from Internet

HOW WILL YOU ENSURE THAT YOUR TOILET & LAUNDRY SYSTEM IS NOT DESTROYING WATER TABLE UNDERNEATH YOUR GROUND?

**B a c k t o N a t u r e**

*Always Use Soap & Detergents  
Made From Different Plants & Herbs*

**However**

*Pertinent Question Arise!  
Who Asked Government to Go Away  
From Nature Till Today?*



# It is Because Politicians are Habitual for Shortcut Measures!

When Food Supply was Short!

It is Their Answer We Should Allow Genetically Modified Food!

However ! When It is Supposed That Natural / Biological Detergent/ Soap Substance is of Short Supply?

It is Their Answer That There is Chemical Alternative to Natural / Biological Detergent/ Soap !

Till Yet We Have Seen That Government has Always Sided With Destroyer of Nature ! These Chemical is Destroying Everything!

Why It is not Thought If Food Can Be Genetically Modified!  
Then We Can Make Sufficient Supply of Natural Detergent/ Soap  
After Allowing / Encouraging Genetically Modified Biological Detergent/ Soap





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If we Only use  
Natural / Biological Detergents /  
Soap Judiciously

**No Government in the World can Construct Water Treatment Plant at Each Nook and Corner to Counter Water Pollution Due to Use of Chemical Detergent/ Soap/ Floor Cleaning Substance**

**Why You Cannot Believe There Are Dozen Other Biological Alternative of Shop Berries (Sapindus)**



# How We will Balance Vices of Pesticide & Chemical Fertilizer

Rather Let You Mix Modern Technology with Traditional Approach

Many Human Friendly Species Extinguished!

Scientists Found That They Died Due to Chemical Fertilizer & Pesticides!



What caused These Birds to Die!

Why We cannot Use Herbal Pesticides !

Herbal Pesticide has No side Effect. It is More Effective to Pest Control



Swachh Bharat Only Possible If We Stop to Use Chemical Fertilizer and Pesticide!

We Should Completely Ban Chemical Pesticide / Fertilizer Subsidy & We Should Give Subsidy + Tax

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Holiday to Organic Farming /Herbal Pest Control Medicines .

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# Where Does All Those Cores of Vulture have Gone!

**Who Allowed These Prey to be Preyed!**

Scientist Say  
that They Died  
Due to Use of  
Wrong  
Medicine to  
Animals

Possibly All  
Allopathic  
Medicine May  
Extinguishing  
Other Friendly  
Creatures!

**Lesson Learnt**

**Vulture Compost!**

**No Vulture!**

Mission to  
Ayurvedic  
Medicine to  
Man &  
Domestic  
Animals

**Revive Vulture!**

**All Dead Animals**

**No Composting**

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**Say Ayurvedic Medicine to Man & Animals!**

Kushan Chapagain



Plastic Is  
Also Essential  
For Packaging/  
Baggage, etc.

However  
Used Plastic Has  
No Price Value  
Which Causes  
Pollution

Only Way  
Out is Pay  
Additional  
Money to  
Garbage  
Collector

Rest  
Money Needs to  
Be Collected  
From Garbage  
Subsidy Tax

USED

PLASTIC

SUBSIDY

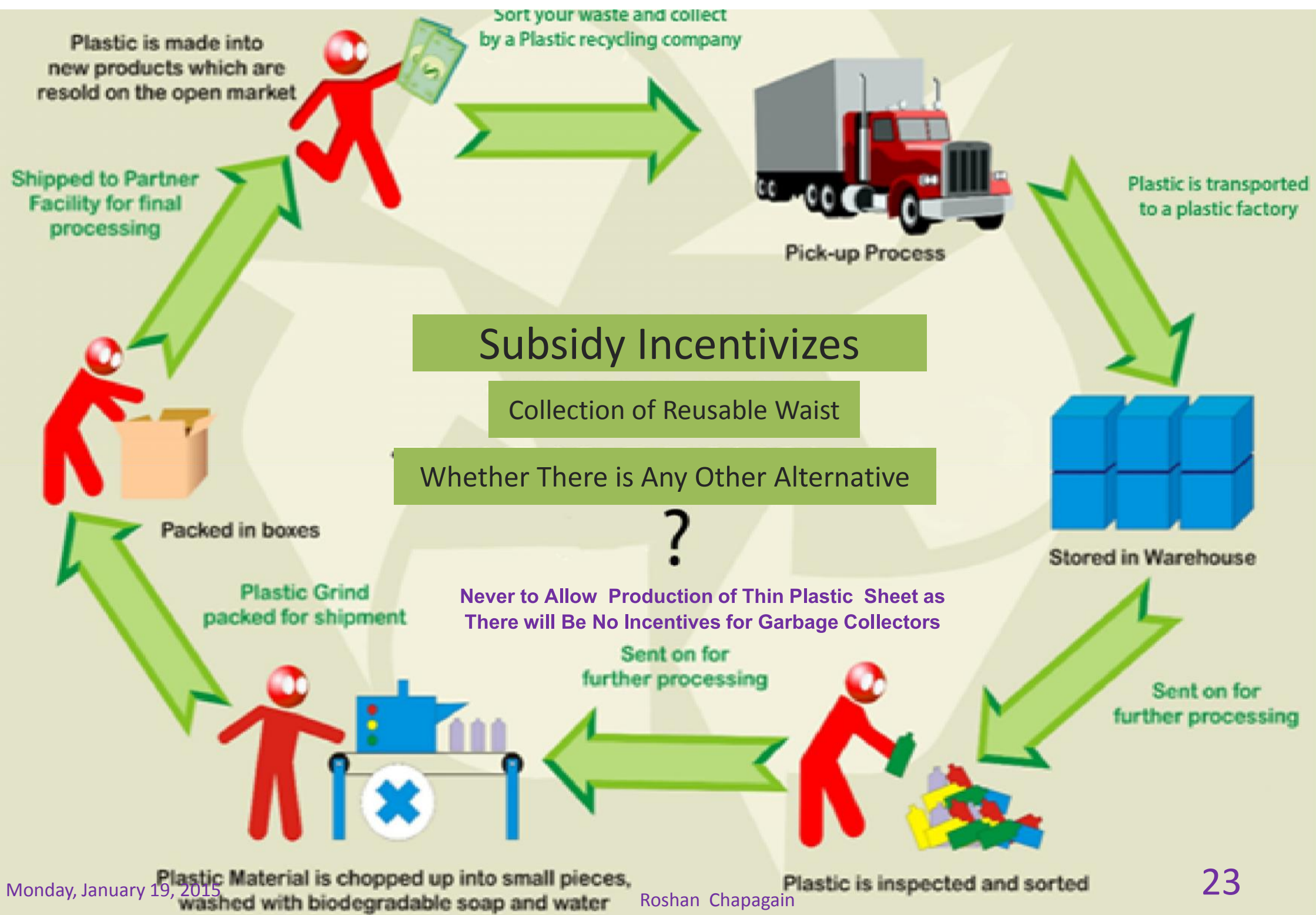
How to  
Collect  
Such Plastic  
Disbursed  
Everywhere?

We  
should either  
Collect Cess from  
Producer of Plastic/  
Plastic Goods

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Subsidy  
Payment



Shredding  
of Plastic



Mixing  
With 170°C Hot  
Bitumen

**SMOOTH AFFAIR**

**Plastic-bitumen**

Shredded pieces of waste plastic are mixed with hot bitumen. It makes the road surface smooth. Approved for approximately 50 km lane. Plastic roads have been found to be a better option than bitumen roads as the binding quality of the material is better. The road has a longer life span, even in wet areas

Micro-surfacing	Recycling
It is polymer modified cold mixed asphalt. Consists of a graded aggregate, a binder, fines and additives. It is successful in extreme conditions of heat or cold	In this technology, the asphalt of the top layer is heated and carefully removed and is reused to make the new road. The new road comes up faster and lasts longer

Construction  
of Bitumen +  
Plastic Road



Converting  
waste plastics to  
petroleum fuels

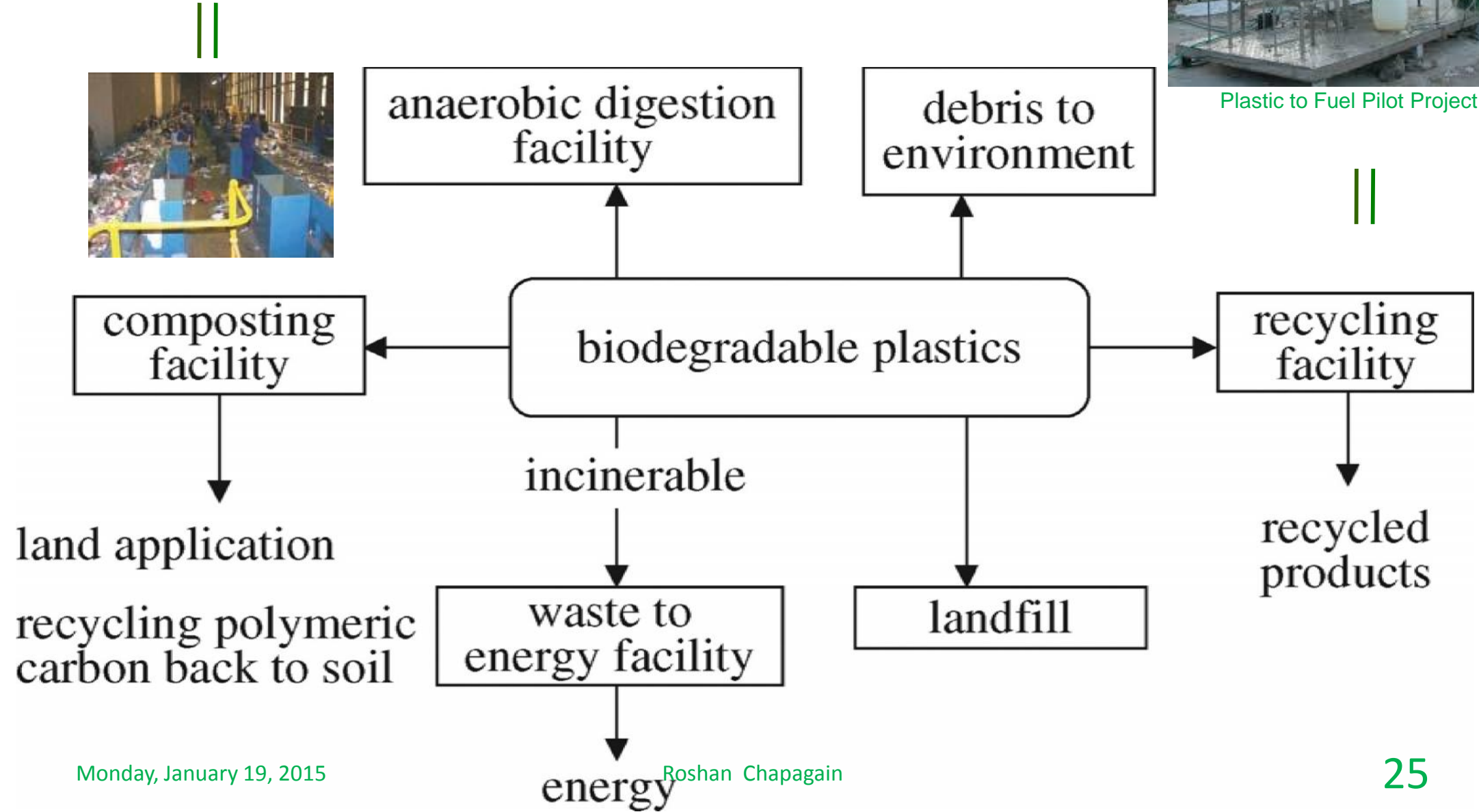




Modern technology converts landfill-bound, mixed waste plastics into fuels that are drop-in replacement to conventional diesel and gasoline blendstocks.



Plastic to Fuel Pilot Project



A close-up view of a railway track showing several dark, rectangular composite sleepers laid between two parallel steel rails. The sleepers are secured to the rails with metal clamps and bolts. The background shows a gravel bed.

Government has Till Yet Monopoly to Railway

Let Railway Start to Buy Composite Plastic [Mixture of Plastic + Rubber (Mostly Tyres)] Sleepers

Subsidy (if necessary) will be Automatically Transferred to Plastic / Rubber Items/ Tyres Collector



These Composite Sleepers are More Stronger & Durable to Conventional Concrete Sleepers



No Sewage Connection  
to Factory/ Industry

If You Allow Sewage  
Connection !

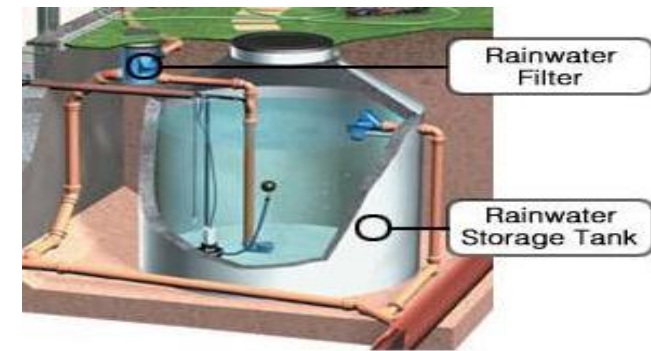
System is Corrupt! They will Flow  
Dirty Water in Sewage



Factory / Industry has No  
Right to Construct Drywell

If You Allow, They will Submerge  
Dirty Water Inside Ground

Every Industry should Collect Rain Water in  
Concrete Tank for Its Own Use Purpose. It cannot  
be Allowed to Throw Such Water on Any Excuse. It  
should Always Use Treated Water Again & Again in  
Their Plant Again.



Industry Should Treat Every Drop of Waste Water In-house for Reuse Purpose Every Time.

NO SEWAGE & DRYWELL TO  
FACTORY/ INDUSTRY

**Excess Burning of Fossil Fuel**



**Air Pollution**

**Disastrous  
Future**

**Food  
Scarcity**

**Oceanic  
Submerge**

**Cloud  
Burst**

**Climate  
Change**

**Global  
Warming**

**Distraction**

**Versus**

**Cohesion**

**Dirtiest**

**Versus**

**Cleanest Air**

**Use of Hydrogen Fuel Vehicle**

**Use of Electric Vehicle**

**Use of Renewal Energy**

**Use of Public Transport (Railway)**

**Use of Atomic Energy (Thorium)**

**LET**

**YOU**

**CHOOSE**



Disaster of Air Pollution

=

Flash Flood at Uttarakhand & Kashmir

*It should be Sufficient for Us to Learn!*

## Do & Don't for Air Pollution Control

- Excess private vehicle use is nuisance to environment pollution and it is major source of air pollution.
- Every private vehicle owners (for private use) should be taxed to create fund to meet the repair of destruction of climate change. Next year we may expect like that of Kashmir flood. There should be disincentive for private vehicle use .
- Now technology is with us, we can either industrially use the carbon dioxide gas produced from coal burn power plant or we can store it inside ground.
- We are world major depositor of Thorium. We should massively use this resource as an alternative to coal.
- Hydrogen fuel is as old as fossil fuel. We can produce enough hydrogen gas after breaking sea water with the help of thorium based atomic power plant.
- We should immediately give tax incentive for use of hydrogen and electric vehicle.
- We should design our new cities in such way that every body would feel good to use public transport.
- Promotion of bicycle. Subsidy to carbon fibre bicycle for youth to craze upon it.
- Promotion & RND expenditure for development of Maglav based transport system.
- Incentive and subsidy to battery vehicle from the cess collected from petrol/ diesel private vehicle.

A group of people, mostly men, are dressed in white uniforms and are sweeping a street with long-handled brooms. They are moving from left to right, creating a sense of motion. The background shows a street with some buildings and a blue sky.

**LET YOU LEARN AND GOVERN!**

**NATURE IS VERY CLEAN ! IT IS NOT BECAUSE IT POSSESS ANY BROOM STICK**

**THIS IS WHY!**

**YOU NEED NOT TO CLEAN AGAIN!**

**WHY NOT YOU CLEAN YOUR BAD HABIT!**

**LET YOU REMEMBER ! WE SHOULD NOT LEFT ANY DIRT FOR OTHERS TO CLEAN! RATHER YOU SHOULD DISPOSE OFF AT THE PLACE WHERE IT IS!**

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**LET US RUN A CLEAN INDIA CAMPAIGN**

**THE MORNING AFTER DIWALI**

**Thanks**